Mirage 4000

Versatile, revolutionary and economical!

The Mirage 4000 is the brightest, most economical stereoscopic 3D projector available with the versatility of 110V that lets you plug and play anywhere! Based on high-resolution SXGA 3-chip DLP™ technology, the Mirage 4000 is the highest performing 110V 3D projector in the world!

At the heart of the Mirage 4000, are Christie-designed electronics that provide high bandwidth, frame rates, pixel and clock speeds resulting in the most advanced digital signal processing for all types of stereo images. This design employs dark interval adjustment (DIA™) control that enhances the overall stereo effect by fine-tuning the critical time between left and right fields. Primary Color Adjustment control (PCA™) – ensures true color representation on all source images.

The Mirage 4000's DMD™ technology – now featuring the new Dark Metal DMDs for improved black level and contrast ratio – is inherently faster than LCD and has the ability to synchronize the left and right fields required for stereo imaging, without time lag, ghosting or other artifacts. And the Mirage 4000 operates at 110V making stereoscopic display easy to set-up.

With the built-in Stereo 3D® interface module, users can view stereoscopic 3D images with active shutter glasses, or with passive polarized eyewear – all through one single projector solution.

Bright, SXGA images in a single-projector 3D solution – the Mirage 4000 is a wise, economical choice!

Recreate Reality…with Mirage!

- **Single Projector Active Stereoscopic Solution**
- **3-Chip DMD™ Optical System featuring new Dark Metal DMDs**
- **4000 ANSI lumens**
- **SXGA resolution**
- **PCA™ (Primary Color Adjustment)**
- **SLIC™ (Spatial Light Imaging Construction)**
- **3D® Stereo Module**
- **LiteLOC™ Contrast brightness tracking**
- **DIA™ (Dark Interval Adjustment)**

APPLICATIONS

- Immersive Environments
- 3D Computer-aided Design
- Virtual Reality
- Vis Sim
- Simulation

CHRISTIE
Project. Present. Perform.

Mirage 4000 • Specifications

Brightness
- 4000 ANSI lumens
- Over 90% brightness uniformity

Contrast Ratio (1.5-2.2:1 zoom lens)
- 300:1 ANSI; 800:1 Full Field

Resolution
- True SXGA 1280 x 1024 chip resolution
- 16.7 million displayable colors
- Christie's 3-DMD™ Optical System (SLIC™) featuring new Dark Metal DMDs for improved black level and contrast ratio
- 13-bit user selectable gamma table

Horizontal Frequency
- 15kHz to 120kHz

Vertical Frequency
- 24 Hz to 120 Hz

Dot Clock
- 160 MHz

Enhanced Feature Set
- Constant brightness tracking (LiteLOC™ - Light Output Control)
- Variable lamp power from 450 to 700W
- Brightness uniformity control
- Intuitive on-screen display (OSD)
- Service functions can be password protected
- Multiple language support
- 100 channel memories
- Built-in Stereo 3D® interface module
- Primary Color Adjustment (PCA™)
- Dark Interval Adjustment (DIA™)
- Auto set-up feature

Control/Networking
- Auto power-up
- Dual RS232 and dual RS422 communication port
- IR Remote keypad
- Front and rear IR receiver
- Optional 2-way controller RS422
- Built-in backlit keypad

Optional Accessories
- Wired two-way remote controller (RS422) with LCD display
- Remote IR sensor
- Replacement lamp module
- Multi-standard video decoder (NTSC 3.58, NTSC 4.43, PAL, PAL 60, PAL M, PAL N, SECAM)
- DVI/DFP module
- Digital HDTV module (SMPTE 292)
- Vista compatible analog input modules
- Compatible with selected third party switchers
- Service manual
- Librarian communication software
- Arbitrary Gamma Table Software
- Wired remote backlit keypad
- Motorized lens mount upgrade
- Serial Digital Input (SMPTE 259M / CCIR 601)
- 10-bit ADP (Advanced Digital Processing) used in non-stereo mode
- Transit case

FEATURES

- *Christie-designed electronics provide the most advanced digital signal processing for all types of stereo images.*

- *Auto set-up and intuitive on-screen display for ease of use.*

- *Fixed lens mount with horizontal and vertical lens offset, focus and zoom adjustment.*

Field Interchangeable Optional Lenses
- 1.2:1 Fixed Short Throw
- Zoom lenses: 1.5-2.2:1, 2.2-4:1 and 4-7:1
- Fixed lens mount with horizontal and vertical lens offset, focus and zoom adjustment
- Screen size 72" to 480" (1.8m – 12.2m) diagonal image size (lens dependent)
- Compatible with VistaGRAPHX 0.8:1, 2.5-4:1, 4-7:1 with adapter
- Built-in light shutter
- Lens mount tilt adjustment
- Up to 130% of vertical lens offset
- Up to 80% of horizontal lens offset

Dynamic Scaling
- Resizing processing for computers and workstations up to 1600 x 1200 resolution
- Independent horizontal and vertical image size adjustment for graphics and video

Inputs
- Input 1: Analog RGB 5 BNC for RGBHV, YPrPb, YCbCr and YUV
- Input 2: Optional plug-in input modules
- Separate, composite sync and sync-on-green compatible
- HDTV Tri-level sync compatible for all known HDTV formats

Stereoscopic Source Compatibility
- Active stereo SXGA with vertical refresh rates up to 108Hz with one field delay, without frame dropping
- In 3D mode, horizontal frequency: 111kHz maximum

Note: in 3D mode, inputs must be in RGB or Digital Flat Panel (Optional module)

Lamp Specification
- 700W CERMAX Xenon® lamp
- Color temperature range 3200K to 9300K
- Over 1000 hours of lamp life
- User replaceable lamp
- Pre-aligned lamp module

Power Requirements
- Voltage range: (auto-switching) AC 100-220V +/- 10%
- Line frequency: 50 - 60 Hz nominal
- Power consumption: 1150W maximum
- In-rush current rating: 50A maximum
- Current rating: 11.5 Amps maximum at 100VAC
- Thermal dissipation: 3950 BTU/hr

Environmental
- Operating temperature: 0 - 35° C
- Operating humidity: 20 - 80% non-condensing

Diagnostics
- Built-in diagnostics LCD display indicates operational status and error messages
- Power and status LEDs
- Full diagnostics through RS232 9-pin D connector

Size and Weight
- 88 lbs (39.9 kg)
- 24.48" W x 30.19" L x 11.88" H
- 64.8cm W x 76.7cm L x 30.2cm H

Standard Accessories
- IR wireless remote (with 4AA batteries)
- 8' line cord
- User manual with warranty card

Regulatory Approvals
- Safety: CSA C22.2 No. 950, UL 1950, EN609050 European Norm "Safety of Information Technology Equipment"
- Complies with relevant worldwide EMC and safety standards
- The product complies with FCC Class A and EN55022 Class A requirements
- This product conforms to all relevant European directives, standards, safety, health and environmental concerns and bares the CE marking

Warranty
- 1 year parts and labor
- Accessories: One year

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Due to constant research, specifications are subject to change without notice.

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